

Claims

1. A valve for controlling fluids, having a piezoelectric actuator (2) which is disposed in an actuator bore (3), a hydraulic booster (11), and a bellows (5) for absorbing an axial stroke of the piezoelectric actuator (2), characterized in that the bellows (5) is solidly connected to the piezoelectric actuator (2) and to the actuator bore (3).
2. The valve for controlling fluids of claim 1, characterized in that the bellows (5) has a sleevelike extension (7), which is solidly connected to the actuator bore (3).
3. The valve for controlling fluids of claim 1 or 2, characterized in that the connection between the bellows (5) and the piezoelectric actuator (2) and/or the connection between the bellows (5) and the actuator bore (3) is embodied as a welded connection.
4. The valve for controlling fluids of claim 1 or 2, characterized in that the sleevelike extension (7) of the bellows (5) is solidly connected to the actuator bore (3) via a press fit of a retaining body (10).
5. The valve for controlling fluids of claim 4, characterized in that the retaining body (10) at least partly receives the hydraulic booster (11).
6. The valve for controlling fluids of one of claims 1-5, characterized in that the bellows (5) is embodied with three undulations (6).
7. The valve for controlling fluids of one of claims 1-6, characterized in that the bellows (5) is produced from metal.
8. The valve for controlling fluids of one of claims 1-7, characterized in that an actuator spring (16) has at least four windings, which are placed against the actuator bore (3).